

PET-G carbon

PET-G Carbon is our 20% carbon fiber reinforced PET-G based filament. The result is a twice as stiff filament as PET-G with increased impact and heat resistance (HDT) to 80°C. This, together with other features, such as a matt surface, no warp, dimensionally stable and extremely forgiving to print, makes PET-G Carbon suitable for a very wide variety of applications besides the typically mentioned RC parts, drones, automotive and more.

Features:

- 20% Carbon fiber reinforced PET-G
- Extremely stiff
- Increased impact and heat resistance
- No warping and dimensionally stable
- Matt surface
- Abrasive (see * at additional info*)

Colours:

Check the website for available colours.

Filaments specifications			
Size	Ø Tolerance	Roundness	
1.75mm	± 0.05mm	≥ 95%	

Material properties			
Description	Testmethod	Typical value	
Specific gravity	ISO 1183	1,19 g/cc	
MFR 300°C/1,2 kg	ISO 1133	N.D.	
Tensile strength at yield	ISO 527	52,5 Mpa	
Strain at yield	ISO 527	4,2%	
Tensile modulus (E-Modules)	ISO 527	3800 MPa	
Impact strength - charpy method 23°C	ISO 179	3,8 kJ/m2	
Printing temperature	dddrop	235 - 255°C	
Melting temperature	ISO 294	230°C ± 10%	
Vicat softening temperature	ISO 306	80°C	

Additional info:

Recommended temperature for heated bed is \pm 75 °C.

* Please consider the use of a Stainless steel nozzle when printing with PET-G Carbon. The carbon fibers are abrasive and will result in fast wear of regular brass nozzles.

Storage: Cool and dry (15-25°C) and away from UV light. This enhances the shelf life significantly.